

IN THE CLAIMS:

Please CANCEL claims 22-25, without prejudice or disclaimer. Please also CANCEL claims 7, 8, 11-13 and 16-18 without prejudice or disclaimer, as these claims were withdrawn from consideration.

1.-4. (Cancelled)

5. (Previously Presented) A chromatic dispersion compensating apparatus, comprising:

a chromatic dispersion compensating module having a spectral unit receiving an input light and generating an output light having a predetermined wavelength, a light returning unit designed for the predetermined wavelength to return the output light to the spectral unit, and a position changing unit changing a relative position between the spectral unit and the light returning unit;

a storing unit storing predetermined position controlling amounts of the position changing unit, the position controlling amounts being used to generate a chromatic dispersion value for a certain wavelength;

a position controlling unit operating the position changing unit based on one of the position controlling amounts in the storing unit corresponding to the predetermined wavelength of the output light and the chromatic dispersion value to thereby change the relative position between the spectral unit and the light returning unit in accordance with said one of the position controlling amounts;

a heating unit heating the spectral unit;

a light branching unit branching the output light output from the spectral unit;

a light intensity measuring unit measuring an intensity of the branched output light; and

a temperature controlling unit controlling the heating unit to provide a maximum light intensity as measured by the light intensity measuring unit.

6. (Previously Presented) A chromatic dispersion compensating apparatus, comprising:

a chromatic dispersion compensating module having a spectral unit receiving an input light and generating an output light having a predetermined wavelength, a light returning unit designed for the predetermined wavelength to return the output light to the spectral unit, and a position changing unit changing a relative position between the spectral unit and the light

returning unit;

a storing unit storing predetermined position controlling amounts of the position changing unit, the position controlling amounts being used to generate a chromatic dispersion value for a certain wavelength;

a position controlling unit operating the position changing unit based on one of the position controlling amounts in the storing unit corresponding to the predetermined wavelength of the output light and the chromatic dispersion value to thereby change the relative position between the spectral unit and the light returning unit in accordance with said one of the position controlling amounts;

a heating unit heating the spectral unit;

a light branching unit branching the output light output from the spectral unit;

a light intensity measuring unit measuring an intensity of the branched output light;

a temperature controlling unit controlling the heating unit to provide a maximum light intensity as measured by the light intensity measuring unit;

a temperature detecting unit detecting a temperature of the spectral unit; and

a temperature storing unit storing the temperature of the spectral unit when the temperature of the spectral unit changes due to the temperature controlling unit and the light intensity obtained from the light intensity measuring unit increases up to approximately the maximum value.

7.-19. (Cancelled)

20. (Original) A chromatic dispersion compensating apparatus, comprising:

a chromatic dispersion compensating module having a spectral unit receiving an input light and generating an output light having a predetermined wavelength;

a storing unit storing predetermined wavelengths used and predetermined chromatic dispersion values and temperatures of the spectral unit corresponding to the predetermined wavelengths used;

a heating unit heating the spectral unit;

a light branching unit branching the output light from the spectral unit;

a light intensity measuring unit measuring an intensity of the branched output light;

a temperature detecting unit detecting a temperature of the spectral unit; and

a temperature controlling unit controlling the heating unit based on one of the temperatures stored in the storing unit that corresponds to the predetermined wavelength of the

output light and the chromatic dispersion value to provide a maximum light intensity of the output light, thereby maintaining the spectral unit at a constant temperature and stabilizing a chromatic dispersion value generated by the spectral unit.

21. (Original) A chromatic dispersion compensating apparatus, comprising:
a monitor light source generating a monitor light;
a chromatic dispersion compensating module having a spectral unit receiving an input light and the monitor light and generating an output light having a signal light with a first wavelength and the monitor light with a second wavelength, the monitor light having an angular dispersion the same as that of the signal light;
a heating unit heating the spectral unit;
a light extracting unit extracting the monitor light from the output light;
a light intensity measuring unit measuring an intensity of the extracted monitor light; and
a temperature controlling unit controlling the heating unit to provide a maximum light intensity of the monitor light, thereby maintaining the spectral unit at a constant temperature and stabilizing a chromatic dispersion value generated by the spectral unit.

22.-29. (Cancelled)